

08-15-03

1623#



ROBERT J. YARBROUGH • ATTORNEY AT LAW  
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August 14, 2003

Commissioner for Patents  
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Re:  
Express Mail No.: EU887666159US  
Application No: 10/090,649  
Inventor: Harold T. Hammel  
Filing date: March 5, 2002

Dear Sirs,

Enclosed are the following:

1. Fee transmittal form.
2. Check payable to Commissioner of Patents and Trademarks in the amount of \$180.00.
3. "Transmittal Form" PTO/SB/21 for Invention Disclosure Statement.
4. "Information Disclosure Statement by Applicant" form PTO/SB/08A, 2 pages.
5. Copies of the following references cited in the above form:
  - a. H.T. Hammel, (1994) "How Solutes Alter Water In Aqueous Solutions," J.Phys.Chem 98:4196-204
  - b. H.T. Hammel, (1995) "Boltzmann's Principle Depicts Distribution Of Water Molecules Between Vapor And Liquid For Pure Liquid And For Aqueous Solutions." J.Phys.Chem 99:8392-8400
  - c. H.T. Hammel, (1995) "Roles of colloidal molecules in Starling's hypothesis and in returning interstitial fluid to the vasa recta." Am.J.Physiol 268:H2133-44
  - d. H.T. Hammel, (1998) "Replacing Lewis's theory with Hulett's theory of altered chemical potentials of reacting

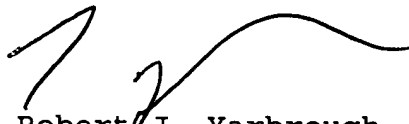
ROBERT J. YARBROUGH  
ATTORNEY AT LAW

constituents in solution." Recent Res. Devel. in Phys Chem.  
2:77-111.

e. H.T. Hammel, (1999) "Evolving idea about osmosis and  
capillary fluid exchange" FASEB J. 13:213-31.

6. Self addressed post card.

Very Truly Yours,



Robert J. Yarbrough

Attachments

U.S. PATENT & TRADEMARK OFFICE  
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Approved for use through 07/31/2006. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

# FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 180.00

Compleat if Known

Application Number 10/090,649  
Filing Date March 3, 2002  
First Named Inventor Harold T. Hammel  
Examiner Name McIntosh III, Travis C.  
Art Unit 1623  
Attorney Docket No. Hammel-001

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## METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☐ Deposit Account:

Deposit Account Number  
Deposit Account Name

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Credit any overpayments  
☐ Charge any additional fee(s) during the pendency of this application  
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 750	2001 375	Utility filing fee	
1002 330	2002 165	Design filing fee	
1003 520	2003 260	Plant filing fee	
1004 750	2004 375	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	

SUBTOTAL (1) (\$) 180.00

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent Claims	-20** =	X	
Multiple Dependent	-3** =	X	

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 84	2201 42	Independent claims in excess of 3
1203 280	2203 140	Multiple dependent claim, if not paid
1204 84	2204 42	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$) 0.00

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	2053 130	Non-English specification	
1812 2,520	21812 2,520	For filing a request for ex parte reexamination	
1804 920*	21804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	21805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 410	2252 205	Extension for reply within second month	
1253 930	2253 465	Extension for reply within third month	
1254 1,450	2254 725	Extension for reply within fourth month	
1255 1,970	2255 985	Extension for reply within fifth month	
1401 320	2401 160	Notice of Appeal	
1402 320	2402 160	Filing a brief in support of an appeal	
1403 280	2403 140	Request for oral hearing	
1451 1,510	2451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,300	2453 650	Petition to revive - unintentional	
1501 1,300	2501 650	Utility issue fee (or reissue)	
1502 470	2502 235	Design issue fee	
1503 630	2503 315	Plant issue fee	
1460 130	2460 130	Petitions to the Commissioner	
1807 50	2807 50	Processing fee under 37 CFR 1.17(q)	
1808 180	2808 180	Submission of Information Disclosure Stmt	180.00
8021 40	28021 40	Recording each patent assignment per property (times number of properties)	
1809 750	2809 375	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 750	2810 375	For each additional invention to be examined (37 CFR 1.129(b))	
1801 750	2801 375	Request for Continued Examination (RCE)	
1802 900	2802 900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 180.00

## SUBMITTED BY

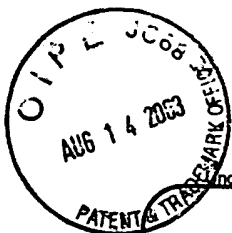
Name (Print/Type) Robert J. Yarbrough  
Registration No. (Attorney/Agent) 42,241  
Telephone (610) 891-0668  
Signature  
Date 8-14-2003

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/21 (03-03)  
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<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/090,649
	Filing Date	March 3, 2002
	First Named Inventor	Harold T. Hammel
	Art Unit	1623
	Examiner Name	McIntosh III, Travis C.
Total Number of Pages in This Submission	Attorney Docket Number	Hammel 001

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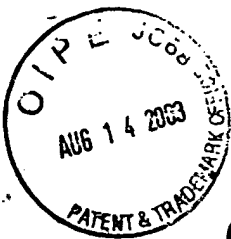
ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to a Technology Center (TC)
<input checked="" type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application	Remarks	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual	Robert J. Yarbrough, Attorney at Law
Signature	
Date	8/14/2003

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: 8/14/2003			
Typed or printed	Robert J. Yarbrough		
Signature		Date	8/14/2003

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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Substitute for form 1449B/PTO		<b>Complete if Known</b>			
		Applicant Number	10/090,649		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Filing Date	03/05/2002		
		First Named Inventor	Harold T. Hammel		
		Group Art Unit	1623		
		Examiner Name	McIntosh III, Travis		
Sheet	1	of	2	Attorney Docket Number	Hammel - 001

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	1.	H.T. HAMMEL, (1994) "How Solutes Alter Water in Aqueous Solutions,"  J.Phys.Chem 98:4196-204.	
	2	H.T. HAMMEL, (1995) "Boltzmann's Principle depicts distribution of water molecules between vapor and liquid for pure liquid and for aqueous solutions,"  J.Phys.Chem. 99:8392-8400.	
	3	H.T. HAMMEL, (1995) "Roles of colloidal molecules in Starling's hypothesis and in returning interstitial fluid to the vasa recta," Am. J. Physiol. 268:H2133-44	
	4	H.T. HAMMEL, (1998) "Replacing Lewis's theory with Hulett's theory of altered chemical potentials of reacting constituents in solution," Recent Res. Devel.  in Phys. Chem. 2:77-111.	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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